§ 1.824

Numeric identifier	Definition	Comments and format	Mandatory (M) or optional (O).
<213>	Organism	Scientific name, i.e., Genus/ species, Unknown or Artificial Sequence. In addition, the "Unknown" or "Artificial Sequence" organisms shall be further described in the <220>to <223-feature section.	М
<220>	Feature	Leave blank after <220>. <221– 223>provide for a description of points of biological significance in the se- quence	M, under the following conditions: if "n," "Xaa," or a modified or unusual L- amino acid or modified base was used in a sequence; if ORGANISM is "Arti- ficial Sequence" or "Unknown"; if mol- ecule is combined DNA/RNA"
<221>	Name/Key	Provide appropriate identifier for feature, preferably from WIPO Standard ST.25 (1998), Appendix 2, Tables 5 and 6.	M, under the following conditions: if "n," "Xaa," or a modified or unusual L- amino acid or modified base was used in a sequence.
<222>	Location	Specify location within sequence; where appropriate state number of first and last bases/amino acids in feature.	M, under the following conditions: if "n," "Xaa," or a modified or unusual L- amino acid or modified base was used in a sequence.
<223>	Other Information	Other relevant information; four lines maximum.	M, under the following conditions: if "n," "Xaa," or a modified or unusual L- amino acid or modified base was used in a sequence; if ORGANISM is "Arti- ficial Sequence" or "Unknown"; if mol- ecule is combined DNA/RNA.
<300>	Publication Information.	Leave blank after <300>	O.
<301>	Authors	Preferably max of ten named authors of publication; specify one name per line; preferable format: Surname, Other Names and/or Initials.	0.
<302>	Title		O.
<303>	Journal		O.
<304>	Volume		O.
<305>	Issue		0.
<306>	Pages	In company of the company of the control of the con	0.
<307>	Date	Journal date on which data published; specify as yyyy-mm-dd, MMM-yyyy or Season-yyyy.	0.
<308>	Database Accession Number.	Accession number assigned by data- base including database name.	O.
<309>	Database Entry Date.	Date of entry in database; specify as yyyy-mm-dd or MMM-yyyy.	O.
<310>	Patent Document Number.	Document number; for patent-type citations only. Specify as, for example, US 07/999,999.	0.
<311>	Patent Filing Date	Document filing date, for patent-type citations only; specify as yyyy-mm-dd.	O.
<312>	Publication Date	Document publication date, for patent- type citations only; specify as yyyy- mm-dd.	0.
<313> <400>	Relevant Residues Sequence	FROM (position) TO (position)	O. M.

[63 FR 29636, June 1, 1998, as amended at 65 FR 54681, Sept. 8, 2000; 68 FR 38630, June 30, 2003]

§ 1.824 Form and format for nucleotide and/or amino acid sequence submissions in computer readable form.

- (a) The computer readable form required by §1.821(e) shall meet the following requirements:
- (1) The computer readable form shall contain a single "Sequence Listing" as either a diskette, series of diskettes, or

other permissible media outlined in paragraph (c) of this section.

- (2) The "Sequence Listing" in paragraph (a)(1) of this section shall be submitted in American Standard Code for Information Interchange (ASCII) text. No other formats shall be allowed.
- (3) The computer readable form may be created by any means, such as word

processors, nucleotide/amino acid sequence editors' or other custom computer programs; however, it shall conform to all requirements detailed in this section.

- (4) File compression is acceptable when using diskette media, so long as the compressed file is in a self-extracting format that will decompress on one of the systems described in paragraph (b) of this section.
- (5) Page numbering must not appear within the computer readable form version of the "Sequence Listing" file.
- (6) All computer readable forms must have a label permanently affixed thereto on which has been hand-printed or typed: the name of the applicant, the title of the invention, the date on which the data were recorded on the computer readable form, the operating system used, a reference number, and an application number and filing date, if known. If multiple diskettes are submitted, the diskette labels must indicate their order (e.g., "1 of X").
- (b) Computer readable form submissions must meet these format requirements:
- (1) Computer Compatibility: IBM PC/XT/AT or Apple Macintosh;
- (2) Operating System Compatibility: MS-DOS, MS-Windows, Unix or Macintosh:
- (3) Line Terminator: ASCII Carriage Return plus ASCII Line Feed; and
- (4) Pagination: Continuous file (no "hard page break" codes permitted).
- (c) Computer readable form files submitted may be in any of the following media:
- (1) Diskette: 3.50 inch, 1.44 Mb storage; 3.50 inch, 720 Kb storage; 5.25 inch, 1.2 Mb storage; 5.25 inch, 360 Kb storage.
- (2) Magnetic tape: 0.5 inch, up to 24000 feet; Density: 1600 or 6250 bits per inch, 9 track; Format: Unix tar command; specify blocking factor (not "block size"); Line Terminator: ASCII Carriage Return plus ASCII Line Feed.
- (3) 8mm Data Cartridge: Format: Unix tar command; specify blocking factor (not "block size"); Line Terminator: ASCII Carriage Return plus ASCII Line Feed.
- (4) Compact disc: Format: ISO 9660 or High Sierra Format.

- (5) Magneto Optical Disk: Size/Storage Specifications: 5.25 inch, 640 Mb.
- (d) Computer readable forms that are submitted to the Office will not be returned to the applicant.

[65 FR 54681, Sept. 8, 2000]

§ 1.825 Amendments to or replacement of sequence listing and computer readable copy thereof.

- (a) Any amendment to a paper copy of the "Sequence Listing" (§1.821(c)) must be made by the submission of substitute sheets and include a statement that the substitute sheets include no new matter. Any amendment to a compact disc copy of the "Sequence Listing" (§1.821(c)) must be made by the submission of a replacement compact disc (2 copies) in compliance with §1.52(e). Amendments must also be accompanied by a statement that indicates support for the amendment in the application, as filed, and a statement that the replacement compact disc includes no new matter.
- (b) Any amendment to the paper or compact disc copy of the "Sequence Listing," in accordance with paragraph (a) of this section, must be accompanied by a substitute copy of the computer readable form (§1.821(e)) including all previously submitted data with the amendment incorporated therein, accompanied by a statement that the copy in computer readable form is the same as the substitute copy of the "Sequence Listing."
- (c) Any appropriate amendments to the "Sequence Listing" in a patent; e.g., by reason of reissue or certificate of correction, must comply with the requirements of paragraphs (a) and (b) of this section.
- (d) If, upon receipt, the computer readable form is found to be damaged or unreadable, applicant must provide, within such time as set by the Director, a substitute copy of the data in computer readable form accompanied by a statement that the substitute data is identical to that originally filed

 $[63\ FR\ 29638,\ June\ 1,\ 1998,\ as\ amended\ at\ 65\ FR\ 54681,\ Sept.\ 8,\ 2000]$